

TABLE 4
SUMMARY OF SOIL FIELD SCREENING AND PAH CHEMICAL ANALYTICAL RESULTS
STOCKPILE SAMPLES
THOMAS OIL SITE/NW MARITIME CENTER
PORT TOWNSEND, WASHINGTON

Soil Sample Number	Date Sampled	Field Screening Results ¹		Noncarcinogenic PAHs ² (mg/kg)												Carcinogenic PAHs ² (mg/kg)						Sum of cPAHs
		Headspace Vapors (ppm)	Sheen	Acenaphthene	Acenaphthylenne	Anthracene	Benzo (ghi) perylene	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Excavation 1—Unocal Tank Farm																						
SP1-1	06/25/02	<100	NS	<0.0100	0.0117	0.0199	0.0165	0.0763	<0.0100	0.0199	0.0206	0.0144	0.0378	0.0818	0.0399	0.0412	0.0405	0.0399	0.0495	<0.0100	0.0117	0.2227
SP1-2	06/25/02	<100	NS	<0.0100	<0.0100	<0.0100	0.0361	0.0361	<0.0100	<0.0100	0.0118	0.0111	<0.0100	0.0417	0.0257	0.0215	0.0264	0.0125	0.0250	<0.0100	0.0167	0.1278
SP1-3	06/25/02	<100	NS	<0.0100	<0.0100	<0.0100	<0.500	<0.500	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0153	0.0118	<0.0100	<0.0100	0.0181	<0.0100	<0.0100	0.0452
SP1-4	06/25/02	<100	NS	<0.0100	<0.0100	0.0361	0.0618	0.0527	<0.0100	0.0208	0.0118	<0.0100	0.0187	0.0632	0.0534	0.0604	0.0673	0.0305	0.0645	<0.0100	0.0368	0.3129
SP1-5	06/25/02	<100	NS	<0.0100	0.0288	0.0394	0.0345	0.220	<0.0100	0.0387	0.0232	0.0183	0.0795	0.200	0.125	0.141	0.120	0.134	0.152	<0.0100	0.0317	0.7047
Excavation 2—Central Portion of the Site																						
SP2-1	07/01/02	<100	NS	<0.0100	<0.0100	<0.0100	0.0107	0.0649	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0413	0.0235	0.0192	0.0185	0.0107	0.0242	<0.0100	<0.0100	0.0961
SP2-2	07/01/02	<100	NS	0.0123	<0.0100	<0.0100	0.0107	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0370	<0.0100	0.0142	0.0178	0.0114	<0.0100	<0.0100	<0.0100	0.0434
SP2-3	07/01/02	<100	NS	<0.0100	<0.0100	<0.0100	0.0135	0.0765	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0553	0.0255	0.0220	0.0213	0.0142	0.0241	<0.0100	0.0106	0.1177
ISP1-1	07/01/02	<100	NS	<0.0100	<0.0100	<0.0100	0.0136	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0163	<0.0100	<0.0100	0.0102	<0.0100	<0.0100	<0.0100	<0.0100	0.0102
ISP1-2	07/01/02	<100	NS	<0.0100	<0.0100	<0.0100	<0.0100	0.0300	<0.0100	0.249	0.131	<0.0100	<0.0100	0.0454	0.0240	0.0160	<0.0100	<0.0100	0.0227	<0.0100	<0.0100	0.0627
ISP1-3	07/01/02	<100	NS	<0.0100	<0.0100	<0.0100	<0.0100	0.0189	<0.0100	0.108	0.0608	<0.0100	<0.0100	0.0405	0.0189	0.0140	0.0147	<0.0100	0.0168	<0.0100	<0.0100	0.0644
Cleanup Action Level			NA												NA						1.0	

Notes:

¹Field screening methods are described in Appendix C. NS = No sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen. Headspace vapors measured with a Bacharach TLV Sniffer calibrated to hexane.

²PAHs = Polycyclic Aromatic Hydrocarbons analyzed by GC/MS-SIMS (EPA-8270).

mg/kg=milligrams per kilogram; ppm=parts per million

NA = not applicable

Chemical analysis conducted by North Creek Analytical of Bothell, Washington. The laboratory reports are presented in Appendix E.